



# 15245 - The Co-Evolution of Star Formation and Powerful Radio Activity in Galaxies During Radio-Mode Feedback

Cycle: 25, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

## INVESTIGATORS

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## VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) 0258+35	WFC3/UVIS	1	30-Jun-2017 21:01:10.0	yes
02	(4) 1037+30	WFC3/UVIS	1	30-Jun-2017 21:01:12.0	yes
03	(8) 1221-423	WFC3/UVIS	1	30-Jun-2017 21:01:13.0	yes
04	(9) 1445+410	WFC3/UVIS	1	30-Jun-2017 21:01:13.0	yes
05	(3) 4C39.32	WFC3/UVIS	2	30-Jun-2017 21:01:15.0	yes
06	(5) 1128+455	WFC3/UVIS	2	30-Jun-2017 21:01:17.0	yes
07	(2) 1014+392	WFC3/UVIS	2	30-Jun-2017 21:01:18.0	yes
08	(6) 1201+394	WFC3/UVIS	2	30-Jun-2017 21:01:20.0	yes
09	(7) 3C268.3	WFC3/UVIS	2	30-Jun-2017 21:01:21.0	yes

14 Total Orbits Used

## **ABSTRACT**

Feedback from radio sources is thought to be a key ingredient in determining the shape of the galaxy luminosity function. Compact Steep Spectrum (CSS) radio sources are galactic scale (1-20 kpc) and so probe radio source feedback to the host galaxy. We propose to carry out WFC3 UV imaging of the line-free continuum between [CIII] 1909 and MgII 2798, as well as WFC3 line-free optical continuum imaging, in nine CSS radio sources. Following our pilot study that detected spatially extended UV radiation in 3/3 CSS sources, we propose observations which will increase our total sample size by a factor of 4. Imaging the UV continuum from hot massive stars is the best way to study recently triggered and ongoing star formation. We will map in detail the star formation regions in relation to the radio structures and multiwavelength properties of the sources. The high spatial resolution will allow us to separate morphologically and characterize the generic star formation which is due to gas infall, and that which is due to triggering by the radio source.

## **OBSERVING DESCRIPTION**

From the Phase I:

We will use the WFC3 to observe the UV continuum in the region between rest-frame [CIII] $\lambda$ 1909 and MgII $\lambda$ 2798. This region is free of bright emission lines which would complicate our analysis of the data (e.g., McCarthy 1993). Depending on redshift we will use the F225W, F275W, or F336W filters.

## Proposal 15245 (STScI Edit Number: 0, Created: Friday, June 30, 2017 8:01:23 PM EST) - Overview

These filters provide good sensitivity to the spectral types of the young stars we hope to detect. We will use standard dithering strategy to eliminate cosmic rays, and hot pixels. To estimate the approximate exposure times required, we use the observed UV properties of the aligned continuum light in our HRC/F330W observations of 3C303.1 ( $z = 0.270$ ) (Labiano et al. 2008). We assume we need to detect an extended source (diameter = 1 arcsec) consisting of a young starburst population (1-100 Myr) normalized to an integrated magnitude of 21 in HRC/F330W. We can get a S/N of about 4.5 per pixel in both filters in 30 minutes (one orbit). In addition, we request a short ( $\sim 10$  min) observation in a medium-band filter which will give us the rest frame optical continuum in a relatively line-free region (between  $[\text{OIII}]\lambda 5007$  and  $[\text{NII}]\lambda 6548$ ). The optical observation will allow us to determine the optical-UV color of the UV emission and confirm that it is produced by young stars. While short, the  $\sim 10$  min optical exposure will allow us to achieve a S/N of about 3.5 per pixel in both filters, which is sufficient for our purposes. Thus, we request one orbit per source for the nearby objects ( $z < 0.3$ ) and two orbits per source for the more distant objects ( $z > 0.3$ ) for a total of 14 orbits.

### Current thinking:

The galaxies will be relatively small, so we don't need to optimize the whole WFC3 FOV. We can do relatively small dithers for CRs and hot pixels. CTE is an issue for the faint objects especially with UV and medium filters. We will put all faint objects (ie, all except 0258+35) in the aperture UVIS2-C1K1C-CTE which puts the objects near a readout so there are fewer pixel transfers.

We will also use a FLASH of typically 8-12 e.

Because of the buffer dumps, there is no point in having individual exposures shorter than 350 s.

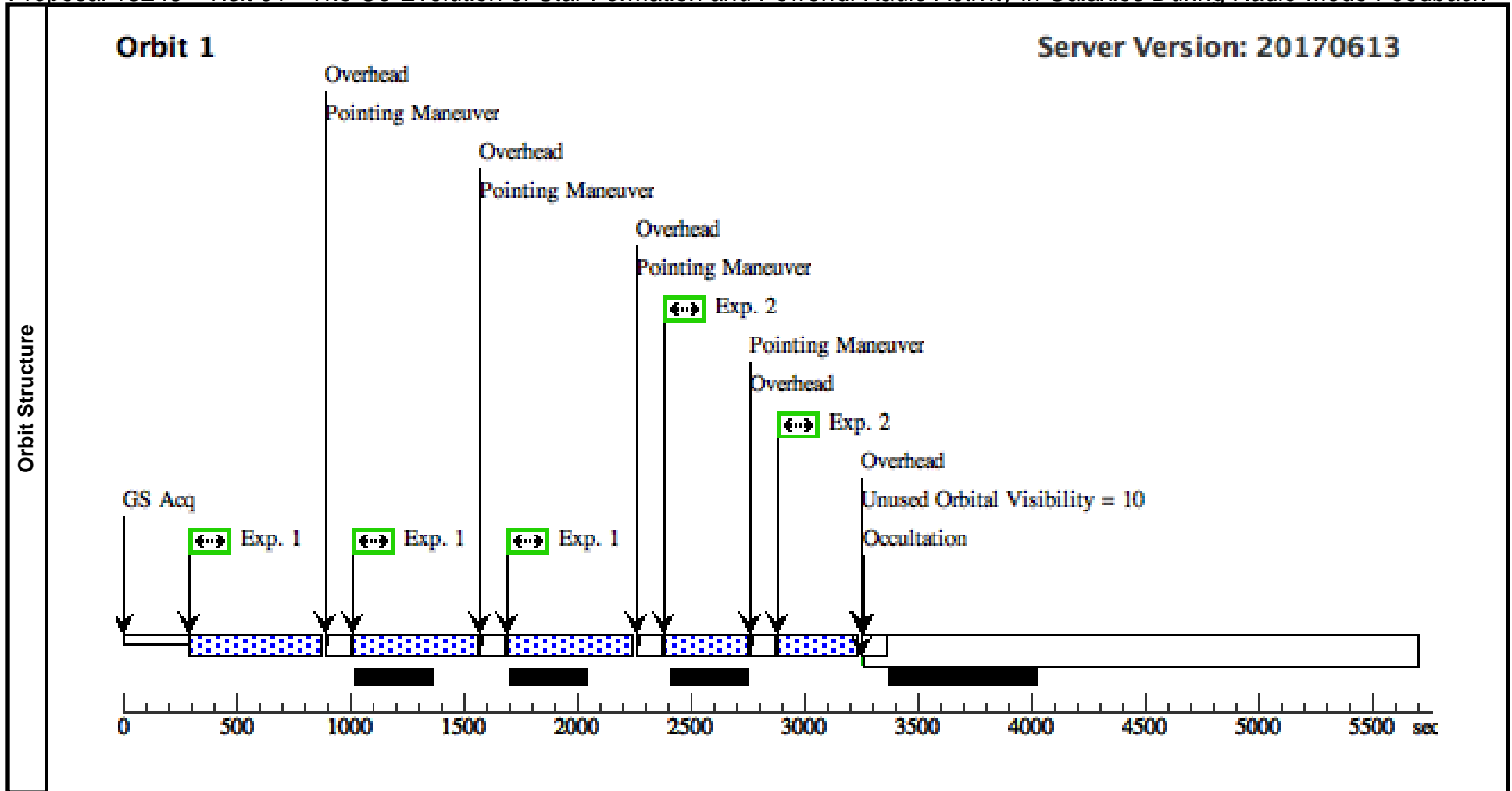
The one orbit visits will consist of 3 UV exposures of 550s and 2 optical exposures of 350s. For the longer UV images we will use a 3-pt dither - WFC3-UVIS-DITHER-LINE-3PT and for the shorter optical images we will use just a 2 pt dither - WFC3-UVIS-DITHER-LINE.

For the higher redshift objects we will use 2 orbits total and will just duplicate the first orbit.

Proposal 15245 - Visit 01 - The Co-Evolution of Star Formation and Powerful Radio Activity in Galaxies During Radio-Mode Feedback

Sat Jul 01 01:01:23 GMT 2017

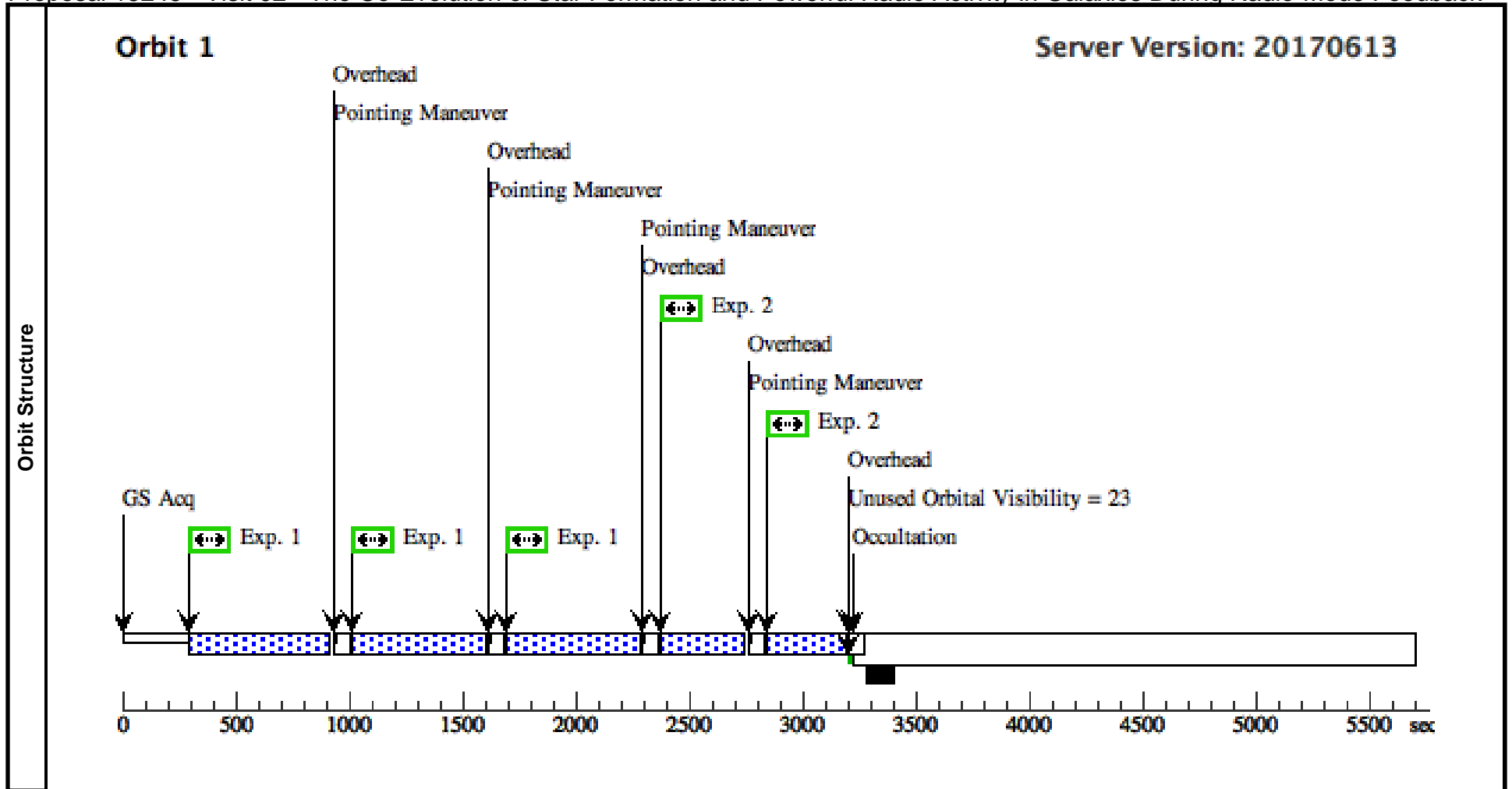
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	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
(3)		Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(2)						
(4)		Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	0258+35	RA: 03 01 42.4000 (45.4266667d) Dec: +35 12 21.00 (35.20583d) Equinox: J2000		V=14+/-0.5	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) 0258+35	WFC3/UVIS, ACCUM, UVIS1	F225W	FLASH=12.0		Pattern 4, Exps 1-1 in Visit 01 (4)	550 Secs (1650 Secs)	
									[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
2		(1) 0258+35	WFC3/UVIS, ACCUM, UVIS1	F621M	FLASH=8.0			Pattern 3, Exps 2-2 in Visit 01 (3)	350 Secs (700 Secs)	
									[=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 15245 - Visit 02 - The Co-Evolution of Star Formation and Powerful Radio Activity in Galaxies During Radio-Mode Feedback

Sat Jul 01 01:01:23 GMT 2017

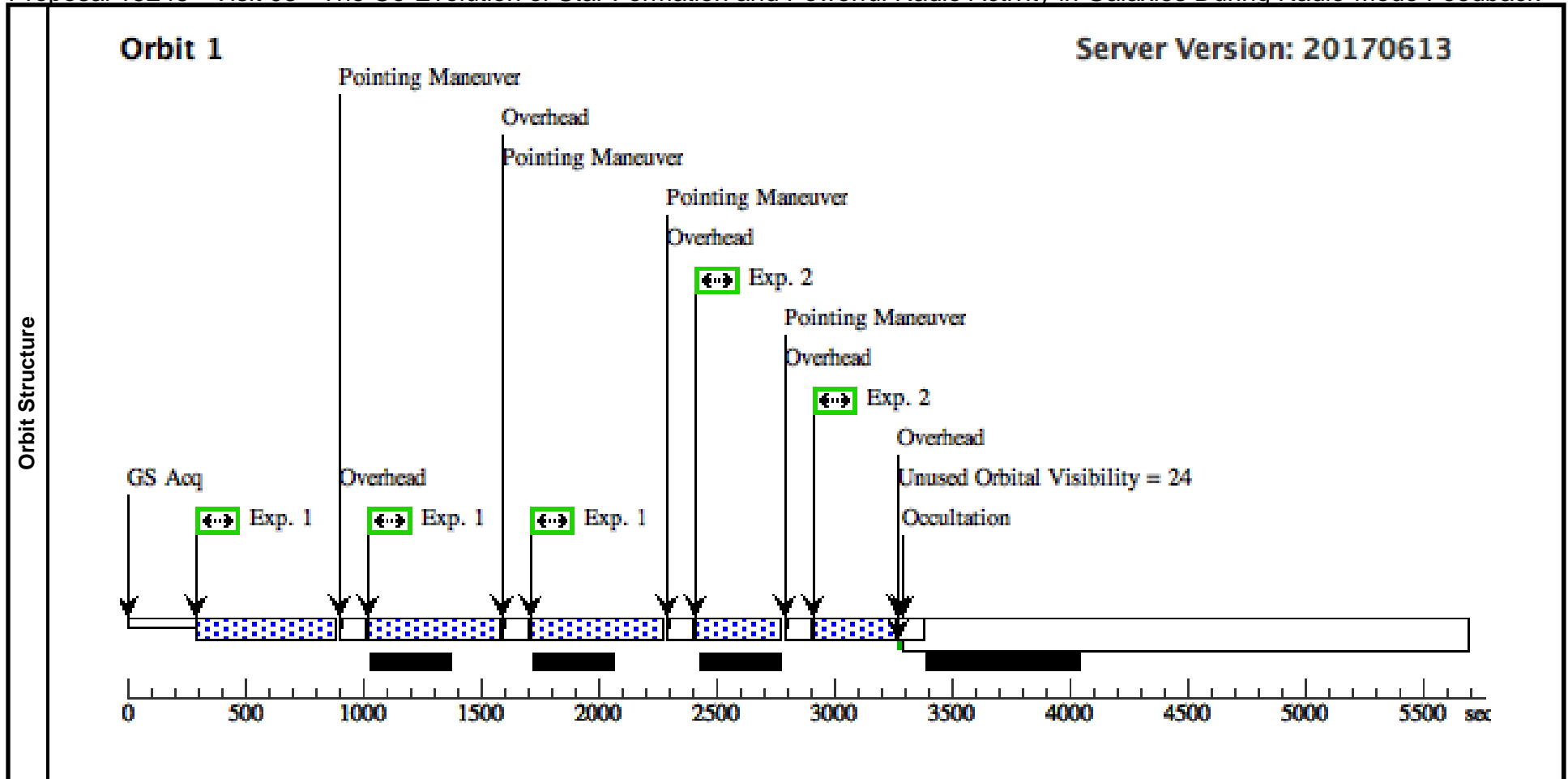
Visit	<b>Proposal 15245, Visit 02</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
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Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER-LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=		(2)						
	(4)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.135 Line Spacing=		(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	1037+30	RA: 10 40 29.9000 (160.1245833d) Dec: +29 57 58.00 (29.96611d) Equinox: J2000		V=19+/-0.5	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(4) 1037+30	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F225W	FLASH=12.0		Pattern 4, Exps 1-1 in Visit 02 (4)	590 Secs (1770 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
2		(4) 1037+30	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F621M	FLASH=8.0		Pattern 3, Exps 2-2 in Visit 02 (3)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 15245 - Visit 03 - The Co-Evolution of Star Formation and Powerful Radio Activity in Galaxies During Radio-Mode Feedback

Sat Jul 01 01:01:23 GMT 2017

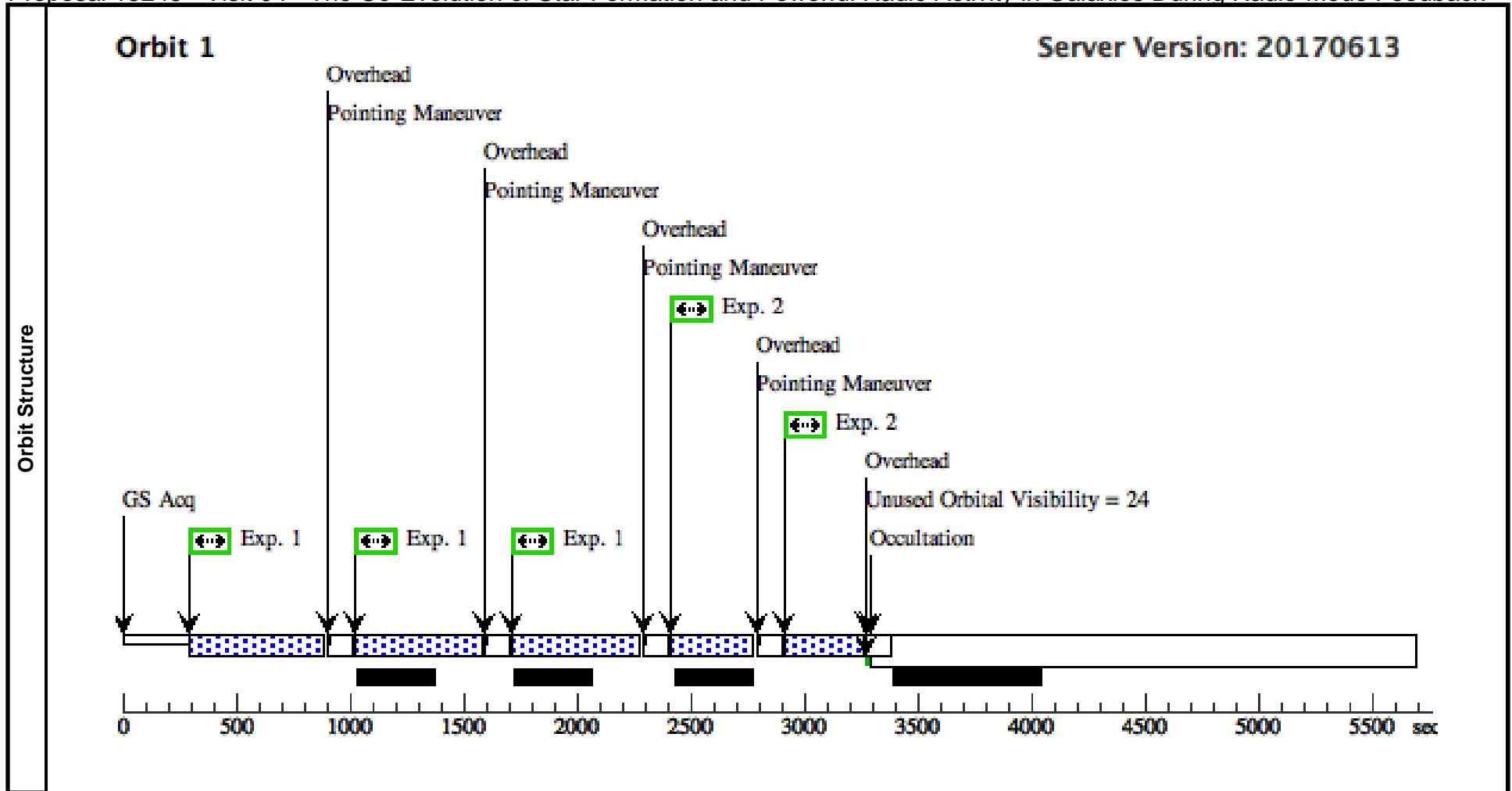
Visit	<b>Proposal 15245, Visit 03</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
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(3)		Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(2)					
(4)		Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	1221-423	RA: 12 23 43.3000 (185.9304167d) Dec: -42 35 38.00 (-42.59389d) Equinox: J2000		V=18+/-0.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(8) 1221-423	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F275W	FLASH=11.0		Pattern 4, Exps 1-1 in Visit 03 (4)	560 Secs (1680 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2		(8) 1221-423	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F689M	FLASH=8.0		Pattern 3, Exps 2-2 in Visit 03 (3)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 15245 - Visit 04 - The Co-Evolution of Star Formation and Powerful Radio Activity in Galaxies During Radio-Mode Feedback

Sat Jul 01 01:01:23 GMT 2017

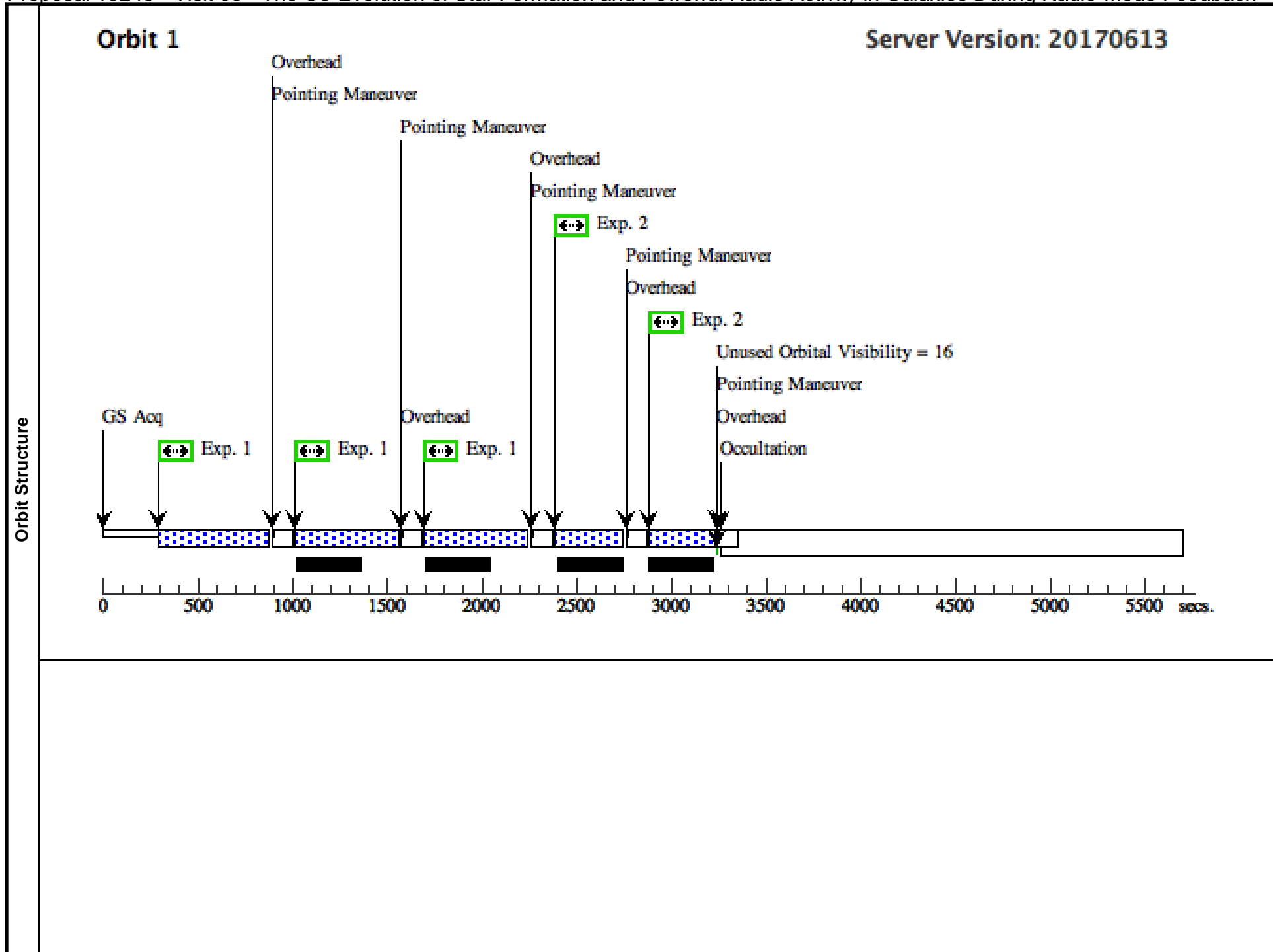
Visit	<b>Proposal 15245, Visit 04</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
(3)		Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(2)					
(4)		Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	1445+410	RA: 14 47 12.7600 (221.8031667d) Dec: +40 47 45.00 (40.79583d) Equinox: J2000		V=19+/-0.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(9) 1445+410	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F275W	FLASH=11.0		Pattern 4, Exps 1-1 in Visit 04 (4)	560 Secs (1680 Secs)	
									[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
2		(9) 1445+410	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F689M	FLASH=8.0		Pattern 3, Exps 2-2 in Visit 04 (3)	350 Secs (700 Secs)		
								[=>(Pattern 1)] [=>(Pattern 2)]	[1]	

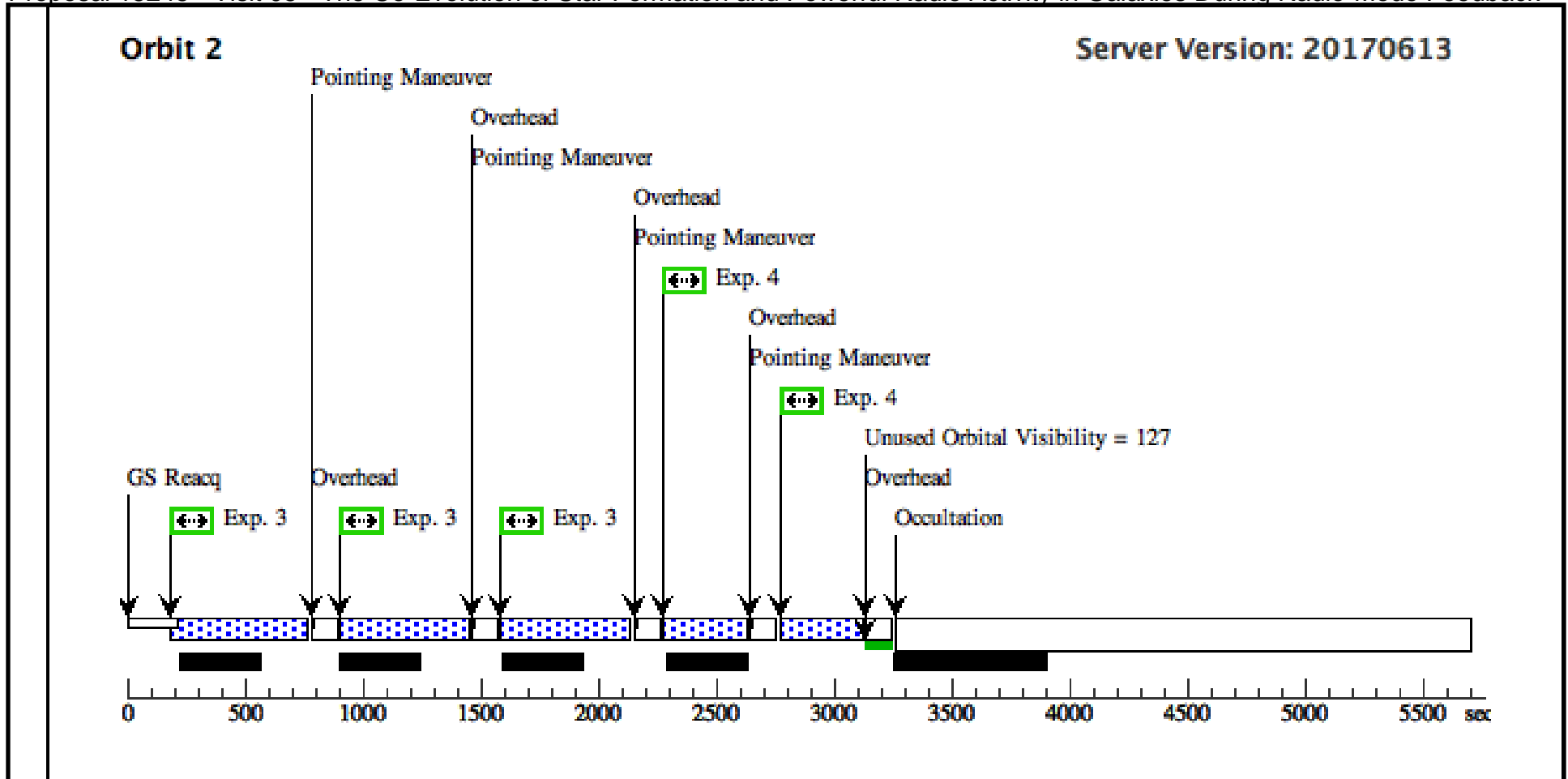


Proposal 15245 - Visit 05 - The Co-Evolution of Star Formation and Powerful Radio Activity in Galaxies During Radio-Mode Feedback

Sat Jul 01 01:01:23 GMT 2017

Visit	<b>Proposal 15245, Visit 05</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER-LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=		(2), (4)						
	(4)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.135 Line Spacing=		(1), (3)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	4C39.32	RA: 10 28 44.3020 (157.1845917d) Dec: +38 44 36.70 (38.74353d) Equinox: J2000		V=18.4	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) 4C39.32	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F336W	FLASH=11.0		Pattern 4, Exps 1-1 in Visit 05 (4)	550 Secs (1650 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2		(3) 4C39.32	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F763M	FLASH=8.0		Pattern 3, Exps 2-2 in Visit 05 (3)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
	3		(3) 4C39.32	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F336W	FLASH=11.0		Pattern 4, Exps 3-3 in Visit 05 (4)	550 Secs (1650 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[2]
4		(3) 4C39.32	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F763M	FLASH=8.0		Pattern 3, Exps 4-4 in Visit 05 (3)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[2]	

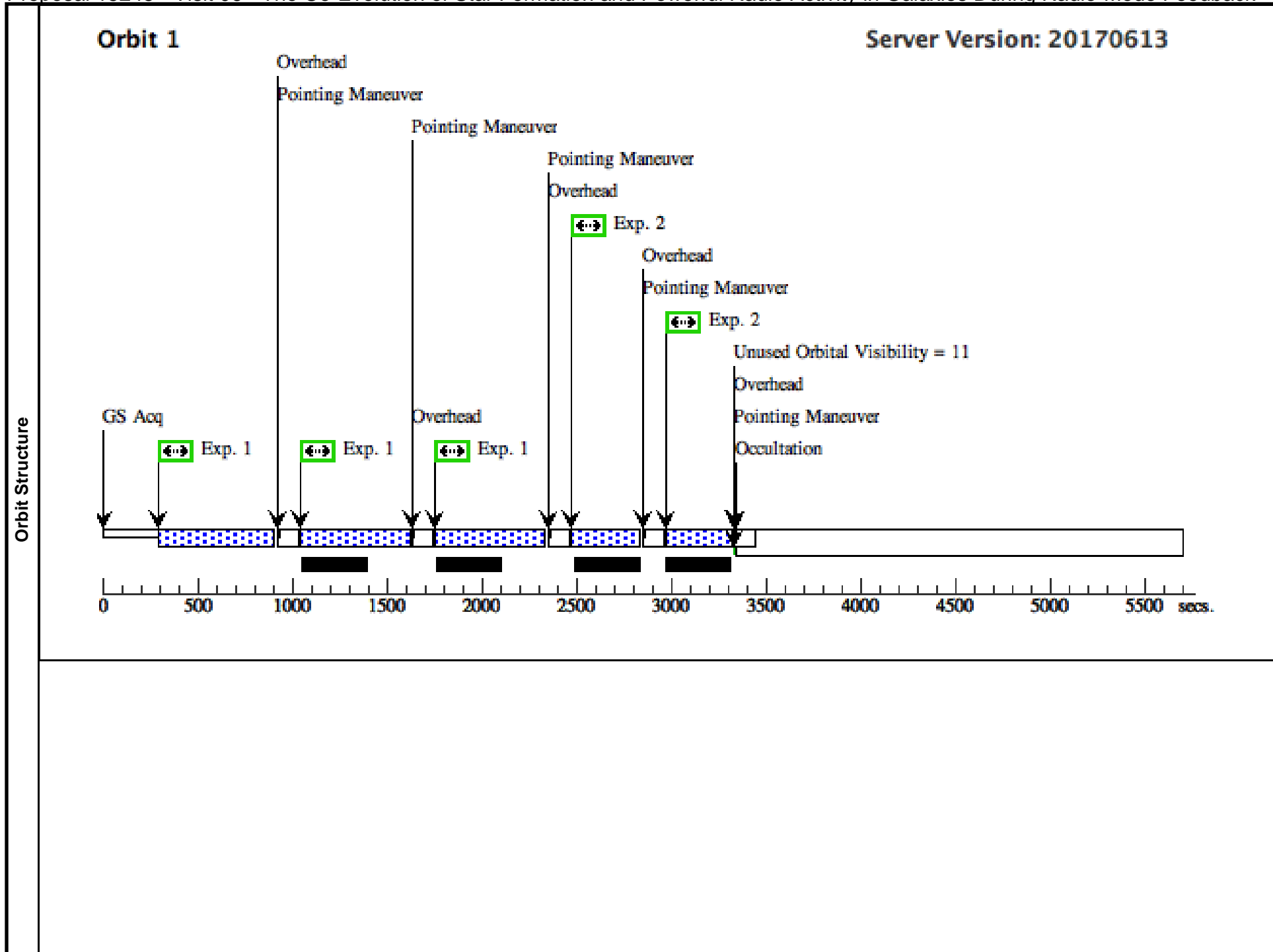




Proposal 15245 - Visit 06 - The Co-Evolution of Star Formation and Powerful Radio Activity in Galaxies During Radio-Mode Feedback

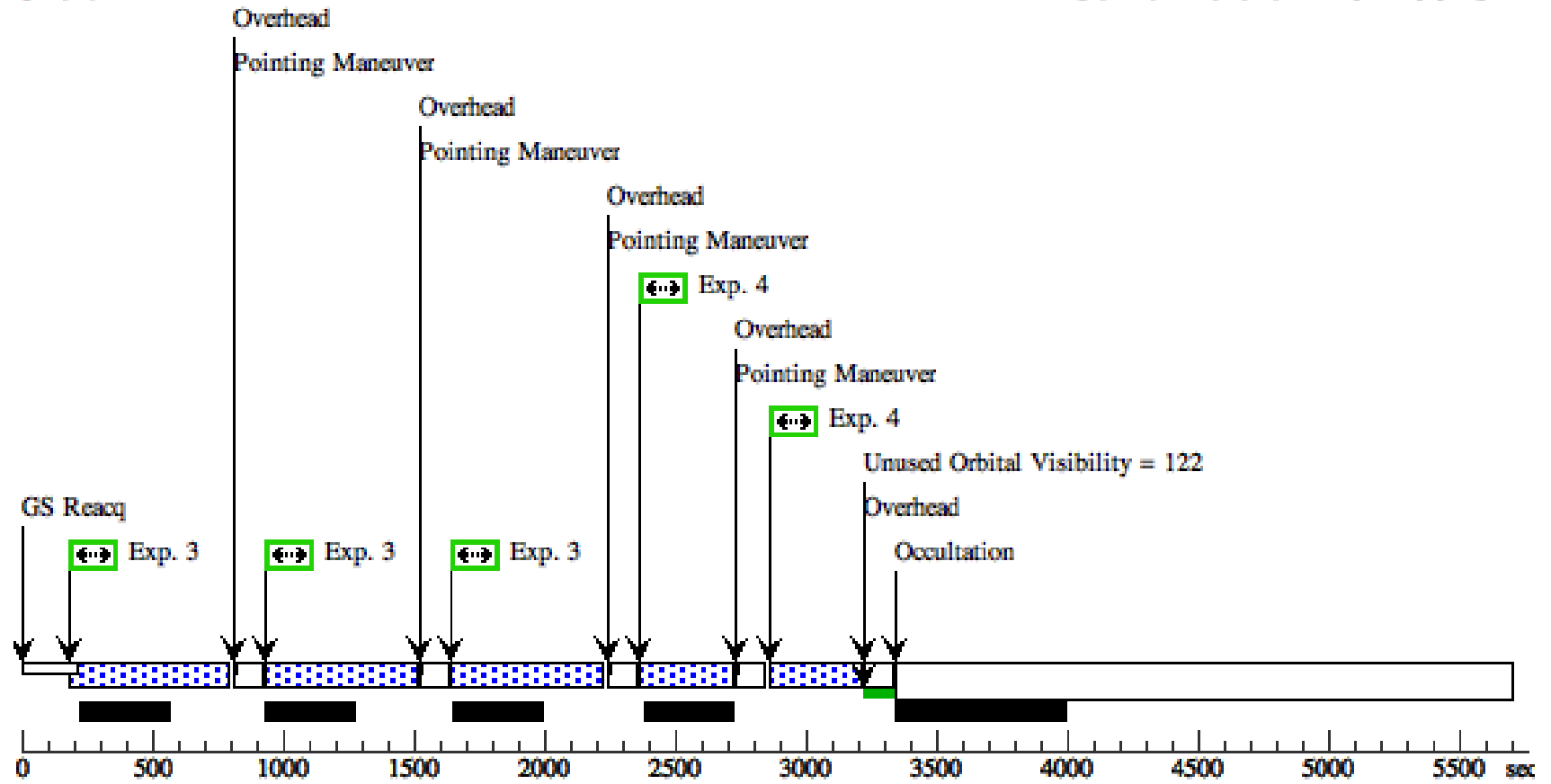
Sat Jul 01 01:01:23 GMT 2017

Visit	<b>Proposal 15245, Visit 06</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
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	(4)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.135 Line Spacing=		(1), (3)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	1128+455	RA: 11 31 38.8920 (172.9120500d) Dec: +45 14 51.15 (45.24754d) Equinox: J2000		V=18.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(5) 1128+455	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F336W	FLASH=11.0		Pattern 4, Exps 1-1 in Visit 06 (4)	580 Secs (1740 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2		(5) 1128+455	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F763M	FLASH=8.0		Pattern 3, Exps 2-2 in Visit 06 (3)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
	3		(5) 1128+455	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F336W	FLASH=11.0		Pattern 4, Exps 3-3 in Visit 06 (4)	580 Secs (1740 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[2]
4		(5) 1128+455	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F763M	FLASH=8.0		Pattern 3, Exps 4-4 in Visit 06 (3)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[2]	



**Orbit 2**

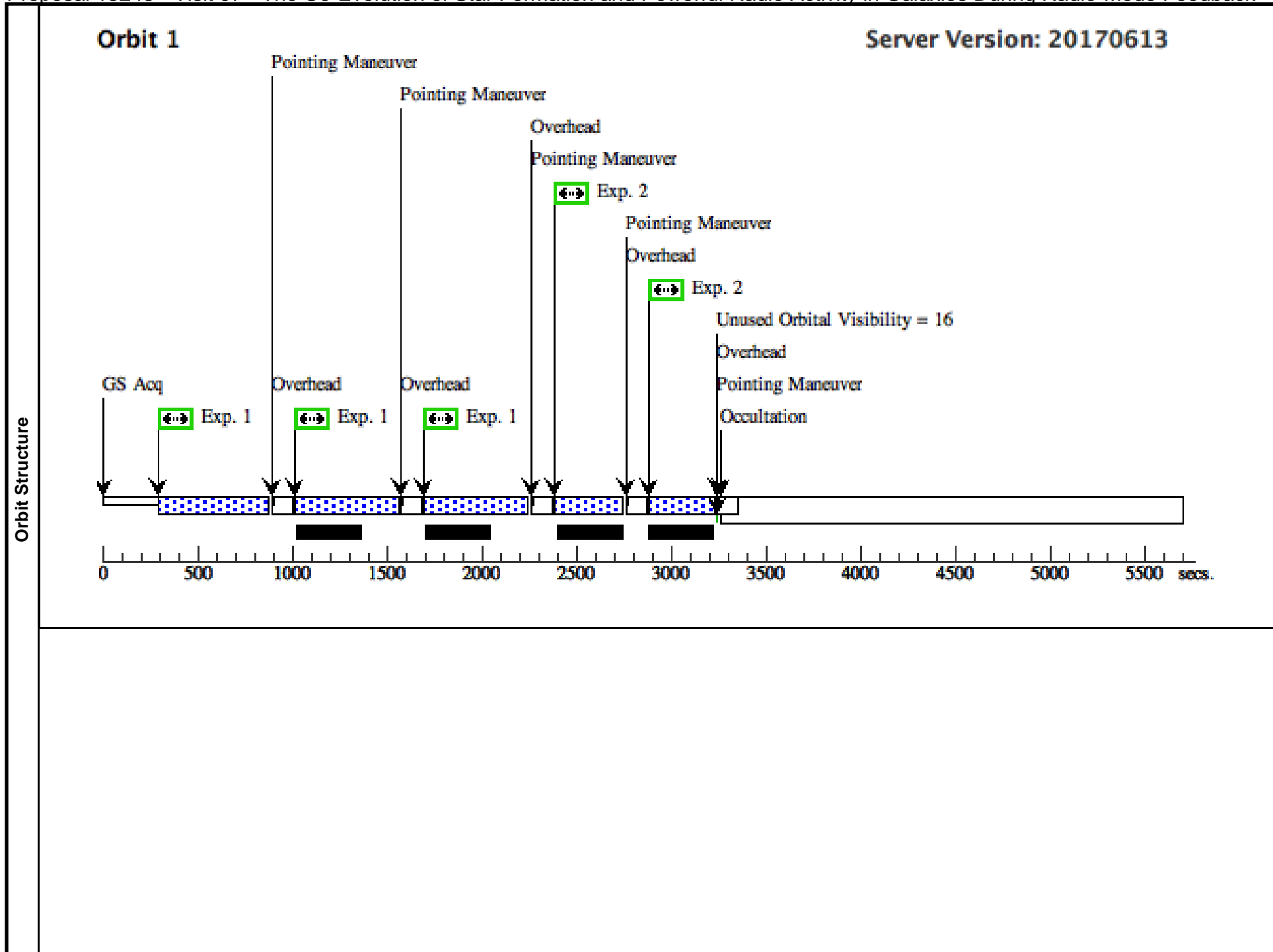
**Server Version: 20170613**



Proposal 15245 - Visit 07 - The Co-Evolution of Star Formation and Powerful Radio Activity in Galaxies During Radio-Mode Feedback

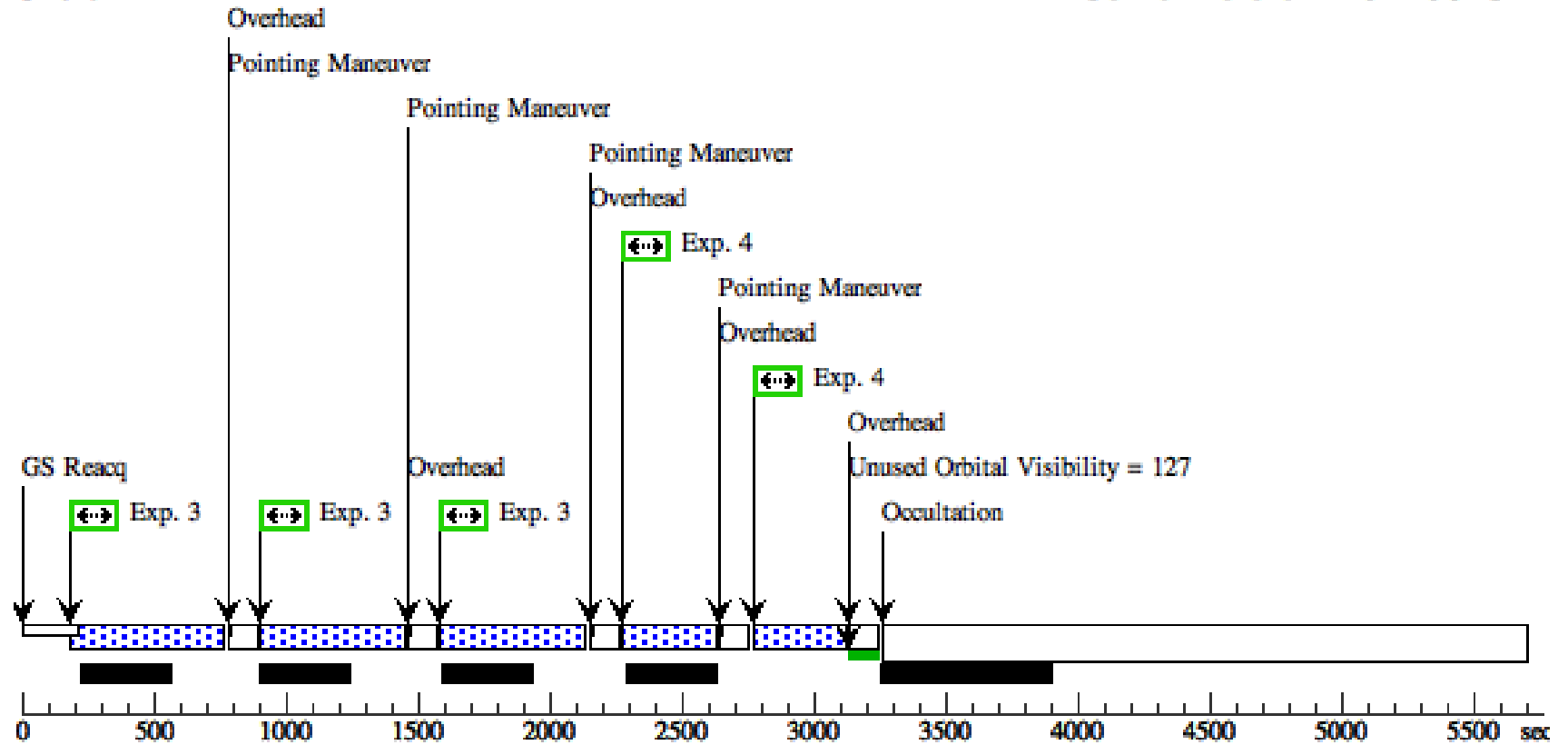
Sat Jul 01 01:01:23 GMT 2017

Visit	<b>Proposal 15245, Visit 07</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER-LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=		(2), (4)						
	(4)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.135 Line Spacing=		(1), (3)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	1014+392	RA: 10 17 14.2000 (154.3091667d) Dec: +39 01 23.00 (39.02306d) Equinox: J2000		V=19+/-0.5	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) 1014+392	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F336W	FLASH=12.0		Pattern 4, Exps 1-1 in Visit 07 (4)	550 Secs (1650 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2		(2) 1014+392	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F845M	FLASH=10.0		Pattern 3, Exps 2-2 in Visit 07 (3)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
	3		(2) 1014+392	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F336W	FLASH=11.0		Pattern 4, Exps 3-3 in Visit 07 (4)	550 Secs (1650 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[2]
	4		(2) 1014+392	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F845M	FLASH=10.0		Pattern 3, Exps 4-4 in Visit 07 (3)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[2]



**Orbit 2**

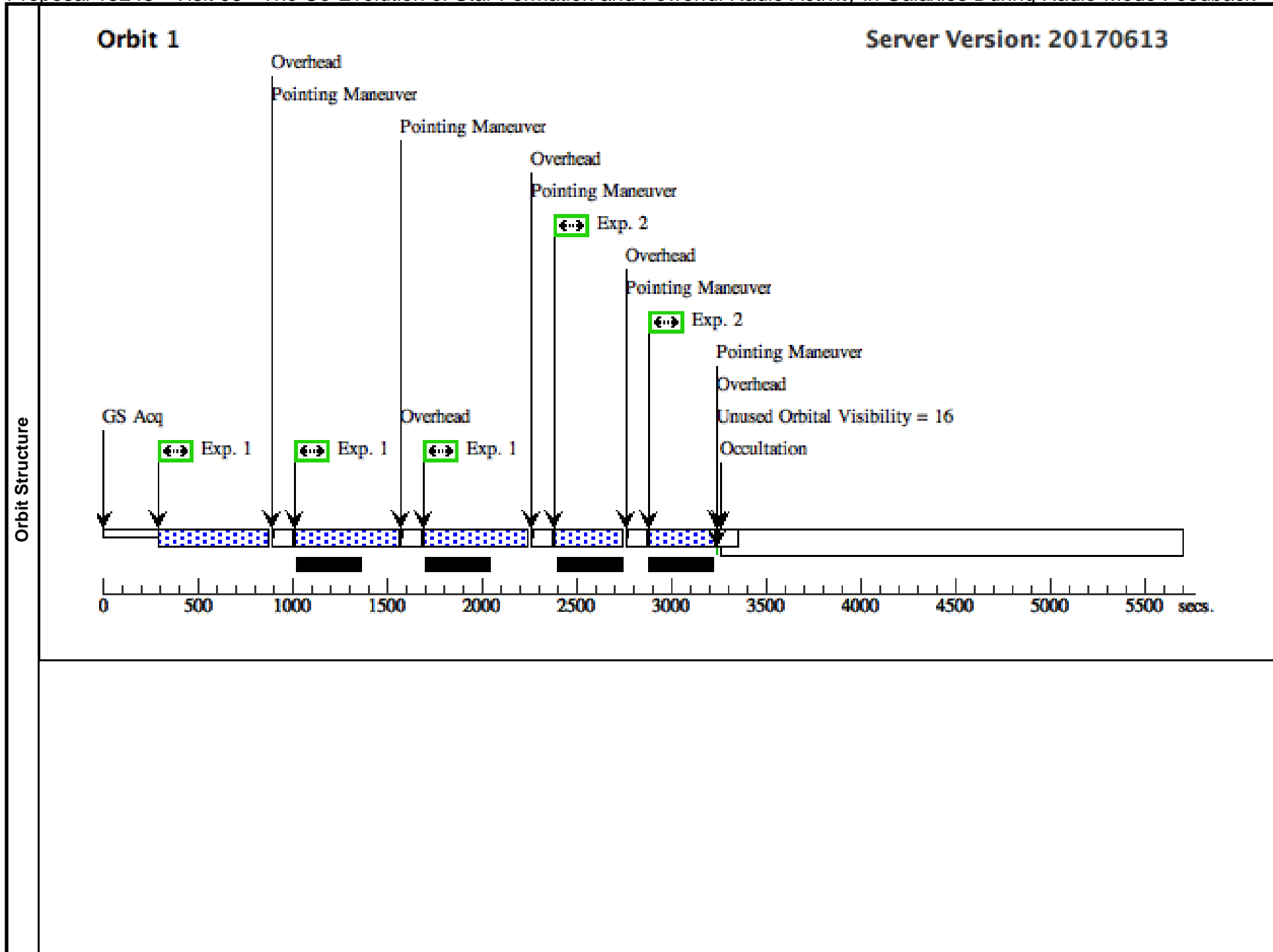
**Server Version: 20170613**



Proposal 15245 - Visit 08 - The Co-Evolution of Star Formation and Powerful Radio Activity in Galaxies During Radio-Mode Feedback

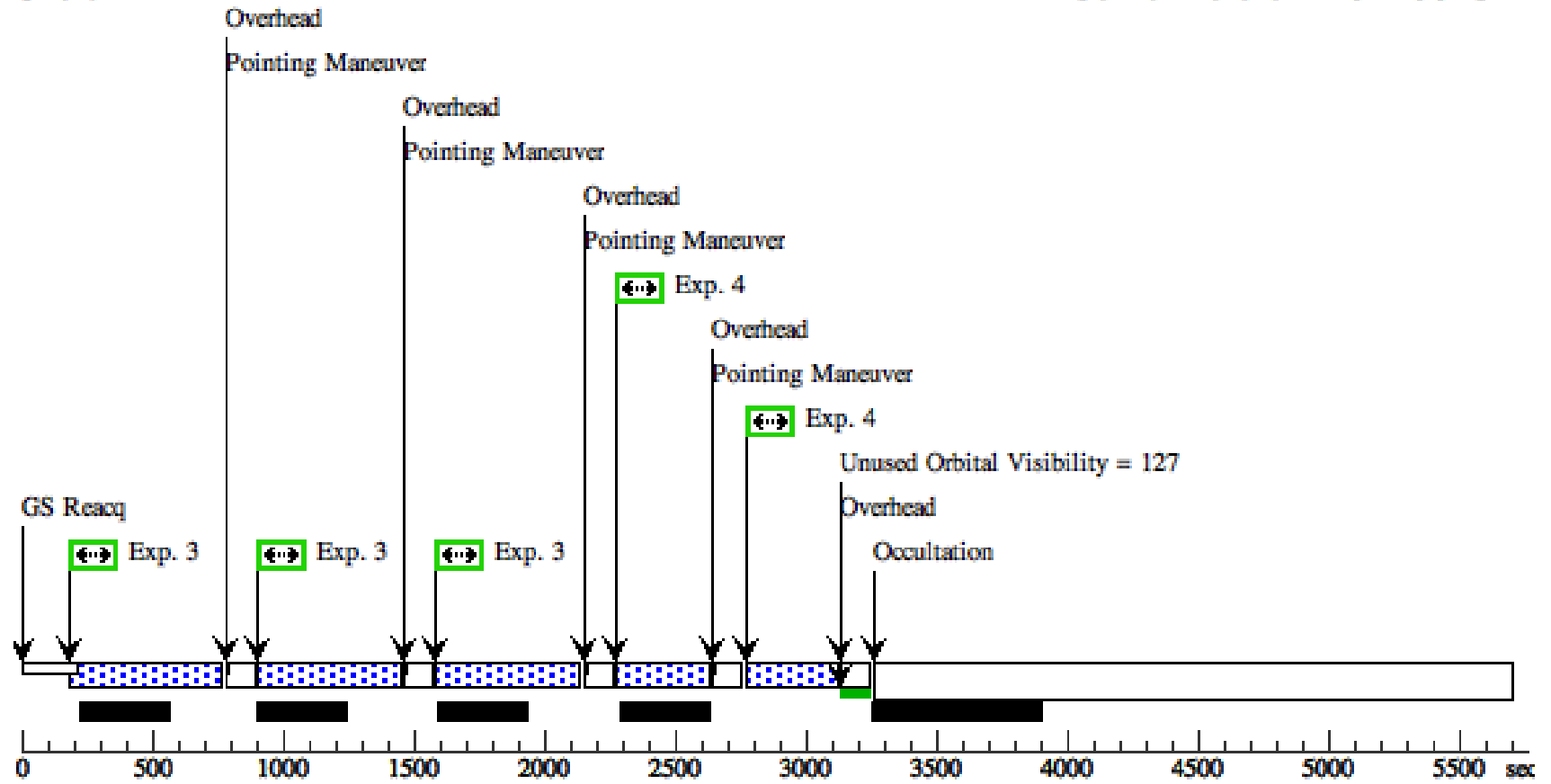
Sat Jul 01 01:01:23 GMT 2017

Visit	<b>Proposal 15245, Visit 08</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(2), (4)						
	(4)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1), (3)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	1201+394	RA: 12 04 6.8590 (181.0285792d) Dec: +39 12 18.17 (39.20505d) Equinox: J2000		V=21.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(6) 1201+394	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F336W	FLASH=11.0		Pattern 4, Exps 1-1 in Visit 08 (4)	550 Secs (1650 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2		(6) 1201+394	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F845M	FLASH=10.0		Pattern 3, Exps 2-2 in Visit 08 (3)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
	3		(6) 1201+394	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F336W	FLASH=11.0		Pattern 4, Exps 3-3 in Visit 08 (4)	550 Secs (1650 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[2]
4		(6) 1201+394	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F845M	FLASH=10.0		Pattern 3, Exps 4-4 in Visit 08 (3)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[2]	



### Orbit 2

Server Version: 20170613



Proposal 15245 - Visit 09 - The Co-Evolution of Star Formation and Powerful Radio Activity in Galaxies During Radio-Mode Feedback

Sat Jul 01 01:01:24 GMT 2017

Visit	<b>Proposal 15245, Visit 09</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER-LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=		(2), (4)						
	(4)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.135 Line Spacing=		(1), (3)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	3C268.3	RA: 12 06 24.6990 (181.6029125d) Dec: +64 13 36.80 (64.22689d) Equinox: J2000		V=20.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(7) 3C268.3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F336W	FLASH=11.0		Pattern 4, Exps 1-1 in Visit 09 (4)	620 Secs (1860 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2		(7) 3C268.3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F763M	FLASH=10.0		Pattern 3, Exps 2-2 in Visit 09 (3)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
	3		(7) 3C268.3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F336W	FLASH=11.0		Pattern 4, Exps 3-3 in Visit 09 (4)	620 Secs (1860 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[2]
4		(7) 3C268.3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F763M	FLASH=10.0		Pattern 3, Exps 4-4 in Visit 09 (3)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[2]	

